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OM protein - protein search, using sw model

Run on: March 17, 2004, 20:03:25 ; Search time 14.5448 Seconds  
(without alignments)  
1309.751 Million cell updates/sec

Title: US-10-057-510-2

Perfect score: 74

Sequence: 1 ARAYKMFMEKAGKWC.....ARLPCGKVGMDVRRWS 74

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 1045404 seqs, 257433775 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US03\_NEW\_PUB.pep:\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep:\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep:\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep:\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep:\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep:\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep:\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep:\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep:\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	72	97.3	74	US-10-057-510-2	Sequence 2, Appli
2	7	9.5	200	14	Sequence 12318, A
3	7	9.5	225	12	Sequence 37580, A
4	7	9.5	247	10	Sequence 1294, Ap
5	7	9.5	321	12	Sequence 175122, A
6	7	9.5	321	12	Sequence 68325, A
7	7	9.5	362	12	Sequence 178575, A
8	7	9.5	434	12	Sequence 62664, A
9	7	9.5	434	12	Sequence 64955, A
10	7	9.5	447	12	Sequence 46886, A
11	7	9.5	451	12	Sequence 61660, A
12	7	9.5	464	12	Sequence 46021, A
13	7	9.5	469	15	Sequence 23099, A
14	7	9.5	568	9	Sequence 4343, Ap
15	7	9.5	568	10	Sequence 118, App

16	7	9.5	1067	15	US-10-369-493-2079	Sequence 2079, Ap
17	7	9.5	2549	10	US-09-950-634-3	Sequence 3, Appli
18	6	8.1	9	9	US-09-833-447A-87	Sequence 87, Appl
19	6	8.1	9	15	US-10-369-060A-87	Sequence 87, Appl
20	6	8.1	9	15	US-10-608-541-51	Sequence 51, Appl
21	6	8.1	11	9	US-09-839-447A-84	Sequence 84, Appl
22	6	8.1	11	15	US-10-369-060A-84	Sequence 84, Appl
23	6	8.1	11	15	US-10-608-541-48	Sequence 48, Appl
24	6	8.1	12	9	US-09-839-666-8	Sequence 8, Appli
25	6	8.1	12	14	US-10-234-579-8	Sequence 8, Appli
26	6	8.1	15	10	US-09-880-748-2869	Sequence 2869, Ap
27	6	8.1	17	14	US-10-161-791-336	Sequence 336, App
28	6	8.1	26	9	US-09-839-666-15	Sequence 15, Appl
29	6	8.1	26	14	US-10-234-579-15	Sequence 15, Appl
30	6	8.1	34	9	US-09-854-864-7	Sequence 7, Appli
31	6	8.1	45	12	US-10-424-599-207097	Sequence 207097,
32	6	8.1	51	9	US-09-854-864-6	Sequence 6, Appli
33	6	8.1	55	12	US-10-424-599-253941	Sequence 253941,
34	6	8.1	56	12	US-10-424-599-221820	Sequence 221820,
35	6	8.1	58	9	US-09-854-864-21	Sequence 21, Appl
36	6	8.1	66	12	US-10-424-599-209790	Sequence 209790,
37	6	8.1	68	12	US-10-424-599-172231	Sequence 172231,
38	6	8.1	71	12	US-10-424-599-148379	Sequence 148379,
39	6	8.1	81	9	US-09-854-864-13	Sequence 13, Appl
40	6	8.1	83	10	US-09-956-622A-46	Sequence 46, Appl
41	6	8.1	89	12	US-10-424-599-253379	Sequence 253379,
42	6	8.1	103	14	US-10-050-302-282	Sequence 282, App
43	6	8.1	103	14	US-10-050-898-282	Sequence 282, App
44	6	8.1	107	14	US-10-050-902-280	Sequence 280, App
45	6	8.1	107	14	US-10-050-902-281	Sequence 281, App

ALIGNMENTS

RESULT 1

US-10-057-510-2  
; Sequence 2, Application US/10057510  
; Publication No. US20020098580A1  
; GENERAL INFORMATION:  
; APPLICANT: Nandabalan, Krishnan  
; APPLICANT: Yang, MeiJia  
; APPLICANT: Schulz, Vincent  
; APPLICANT: Curagen Corporation  
; TITLE OF INVENTION: MDM INTERACTING PROTEIN AND METHODS OF USE THEREOF  
; FILE REFERENCE: 15966-524 MDM US  
; CURRENT APPLICATION NUMBER: US/10/057,510  
; CURRENT FILING DATE: 2002-01-25  
; PRIOR APPLICATION NUMBER: USSN 09/510,252  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: USSN 60/121,192  
; PRIOR FILING DATE: 1999-02-23  
; PRIOR APPLICATION NUMBER: USSN 60/122,643  
; PRIOR FILING DATE: 1999-03-03  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 74  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Any X can be any amino acid.

US-10-057-510-2

Query Match 97.3%; Score 72; DB 13; Length 74;  
Best Local Similarity 100.0%; Pred. No. 6.6e-66;  
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	ARAYKMFMEKAGKWCMPKLIIDTPPSIVAPALTAVLSCOLRCSLWVGARLXPC	60
DB	1	ARAYKMFMEKAGKWCMPKLIIDTPPSIVAPALTAVLSCOLRCSLWVGARLXPC	60
QY	61	GKVEGMDVRRWS	74

Db 61 GKVEGMDVWRRWS 74  
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## RESULT 2

US-10-156-761-12318  
; Sequence 12318, Application US/10156761  
; Publication No. US20030119018A1  
; GENERAL INFORMATION:  
; APPLICANT: OMURA, SATOSHI  
; APPLICANT: IKEDA, HARUO  
; APPLICANT: ISHIKAWA, JUN  
; APPLICANT: HORIKAWA, HIROSHI  
; APPLICANT: SHIBA, TADAYOSHI  
; APPLICANT: SAKAKI, YOSHIYUKI  
; APPLICANT: HATTORI, MASAHIRA  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; PRIOR FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIOR APPLICATION NUMBER: JP 2001-272697  
; PRIOR FILING DATE: 2001-08-02  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO 12318  
; LENGTH: 200  
; TYPE: PRT  
; ORGANISM: Streptomyces avermitilis  
US-10-156-761-12318

Query Match 9.5%; Score 7; DB 14; Length 200;  
Best Local Similarity 100.0%; Pred. No. 37;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 PALTAVL 42  
|||||  
Db 54 PALTAVL 60

## RESULT 3

US-10-425-114-37580  
; Sequence 37580, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 37580  
; LENGTH: 225  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LJB3061-031-G10\_FLI.pap  
US-10-425-114-37580

Query Match 9.5%; Score 7; DB 12; Length 225;  
Best Local Similarity 100.0%; Pred. No. 41;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 37 ALTAVLS 43  
|||||  
Db 25 ALTAVLS 31

## RESULT 4

US-09-880-748-1294  
; Sequence 1294, Application US/09880748  
; Publication No. US20030059937A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523  
; CURRENT APPLICATION NUMBER: US/09/880,748  
; CURRENT FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-15  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1294  
; LENGTH: 247  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-880-748-1294

Query Match 9.5%; Score 7; DB 10; Length 247;  
Best Local Similarity 100.0%; Pred. No. 44;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 63 VEGMDVW 69  
|||||  
Db 108 VEGMDVW 114

## RESULT 5

US-10-424-599-175122  
; Sequence 175122, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 175122  
; LENGTH: 321  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_129153C.1.pap  
US-10-424-599-175122

Query Match 9.5%; Score 7; DB 12; Length 321;  
Best Local Similarity 100.0%; Pred. No. 55;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 30 PFSIVAP 36  
|||||  
Db 129 PFSIVAP 135

## RESULT 6

US-10-425-114-68325  
; Sequence 68325, Application US/10425114

Publication No. US2004003488A1

GENERAL INFORMATION:

APPLICANT: Liu, Jingdong

APPLICANT: Zhou, Yihua

APPLICANT: Kovalic, David K.

APPLICANT: Screen, Steven E

APPLICANT: Tabaska, Jack E

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53313)B

CURRENT APPLICATION NUMBER: US/10/425,114

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 73128

SEQ ID NO 68325

LENGTH: 321

TYPE: PRT

ORGANISM: Glycine max

FEATURE:

OTHER INFORMATION: Clone ID: 700763959\_FLI.pep

US-10-425-114-68325

Query Match 9.5%; Score 7; DB 12; Length 321;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 PFSIVAP 36

|||||

DB 129 PFSIVAP 135

RESULT 7

US-10-424-599-178575

Sequence 178575, Application US/10424599

Publication No. US20040031072A1

GENERAL INFORMATION:

APPLICANT: La Rosa Thomas J

APPLICANT: Kovalic David K

APPLICANT: Zhou Yihua

APPLICANT: Cao Yongwei

TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53223)B

CURRENT APPLICATION NUMBER: US/10/424,599

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684

SEQ ID NO 178575

LENGTH: 362

TYPE: PRT

ORGANISM: Glycine max

FEATURE:

OTHER INFORMATION: Clone ID: PAT\_MRT3847\_132270C.1.pep

US-10-424-599-178575

Query Match 9.5%; Score 7; DB 12; Length 362;

Best Local Similarity 100.0%; Pred. No. 61;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 37 ALTAVALS 43

|||||

DB 98 ALTAVALS 104

RESULT 8

US-10-282-122A-62664

Sequence 62664, Application US/10282122A

Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu

APPLICANT: Zamudio, Carlos

APPLICANT: Malone, Cheryl

APPLICANT: Haselbeck, Robert

APPLICANT: Ohlsen, Kari

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

APPLICANT: Zyskind, Judith

APPLICANT: Wall, Daniel

APPLICANT: Trawick, John

APPLICANT: Carr, Grant

APPLICANT: Yamamoto, Robert

APPLICANT: Forsyth, R.

APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06

PRIOR APPLICATION NUMBER: 60/230,347

PRIOR FILING DATE: 2000-09-09

PRIOR APPLICATION NUMBER: 60/242,578

PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625

PRIOR FILING DATE: 2000-11-27

PRIOR APPLICATION NUMBER: 60/257,931

PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: 60/267,636

PRIOR FILING DATE: 2001-02-09

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-02-16

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 78614

SOFTWARE: PatentIn version 3.1

SEQ ID NO 62664

LENGTH: 434

TYPE: PRT

ORGANISM: Mycobacterium bovis

US-10-282-122A-62664

Query Match 9.5%; Score 7; DB 12; Length 434;

Best Local Similarity 100.0%; Pred. No. 71;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 LTAVLSC 44

|||||

DB 271 LTAVLSC 277

RESULT 9

US-10-282-122A-64955

Sequence 64955, Application US/10282122A

Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu

APPLICANT: Zamudio, Carlos

APPLICANT: Malone, Cheryl

APPLICANT: Haselbeck, Robert

APPLICANT: Ohlsen, Kari

APPLICANT: Zyskind, Judith

APPLICANT: Wall, Daniel

APPLICANT: Trawick, John

APPLICANT: Carr, Grant

APPLICANT: Yamamoto, Robert

APPLICANT: Forsyth, R.

APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 64955  
; LENGTH: 434  
; TYPE: PRT  
; ORGANISM: Mycobacterium tuberculosis  
US-10-282-122A-64955

Query Match 9.5%; Score 7; DB 12; Length 434;  
Best Local Similarity 100.0%; Pred. No. 71;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 LTAVLSC 44  
Db 271 LTAVLSC 277

RESULT 10  
US-10-282-122A-46886  
; Sequence 46886, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 64955  
; LENGTH: 434  
; TYPE: PRT  
; ORGANISM: Mycobacterium tuberculosis

; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 46886  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Bacillus anthracis  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (182)..(182)  
; OTHER INFORMATION: X-any amino acid  
US-10-282-122A-46886

Query Match 9.5%; Score 7; DB 12; Length 447;  
Best Local Similarity 100.0%; Pred. No. 73;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 LTAVLSC 44  
Db 286 LTAVLSC 292

RESULT 11  
US-10-282-122A-61660  
; Sequence 61660, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 61660  
; LENGTH: 451  
; TYPE: PRT  
; ORGANISM: Mycobacterium avium

US-10-282-122A-61660

Query Match 9.5%; Score 7; DB 12; Length 451;  
Best Local Similarity 100.0%; Pred. No. 73;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 38 LTAVLSC 44  
Db 290 LTAVLSC 296  
|||||

RESULT 12

US-10-282-122A-46021  
Sequence 46021, Application US/10282122A

Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Olsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.

APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282.122A

CURRENT FILING DATE: 2003-02-20

PRIOR FILING DATE: 2000-03-21

PRIOR FILING DATE: 2000-03-21

PRIOR FILING DATE: 2000-05-23

PRIOR FILING DATE: 2000-05-23

PRIOR FILING DATE: 2000-05-26

PRIOR FILING DATE: 2000-09-06

PRIOR FILING DATE: 2000-09-06

PRIOR FILING DATE: 2000-09-09

PRIOR FILING DATE: 2000-10-23

PRIOR FILING DATE: 2000-11-27

PRIOR FILING DATE: 2000-12-22

PRIOR FILING DATE: 2001-02-16

PRIOR FILING DATE: 2001-02-16

PRIOR FILING DATE: 2001-02-16

PRIOR FILING DATE: 2001-02-16

PRIOR FILING DATE: 2001-02-16

PRIOR FILING DATE: 2001-02-16

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PRIOR FILING DATE: 2001-02-16

PRIOR FILING DATE: 2001-02-16

PRIOR FILING DATE: 2001-02-16

PRIOR FILING DATE: 2001-02-16

PRIOR FILING DATE: 2001-02-16

US-09-746-660A-118  
 ; Sequence 118, Application US/09746660A  
 ; Publication No. US20030049804A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pompejus, Markus  
 ; APPLICANT: Kroger, Burkhard  
 ; APPLICANT: Schroder, Hartwig  
 ; APPLICANT: Zelder, Oskar  
 ; APPLICANT: Habernauer, Gregor  
 ; APPLICANT: Kim, Jun-won  
 ; APPLICANT: Lee, Heung-Schick  
 ; APPLICANT: Hwang, Byung-Joon  
 ; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING  
 ; FILE REFERENCE: BGI-121CP2  
 ; CURRENT APPLICATION NUMBER: US/09/746,660A  
 ; CURRENT FILING DATE: 2000-12-22  
 ; PRIOR APPLICATION NUMBER: 09/606740  
 ; PRIOR FILING DATE: 2000-06-23  
 ; PRIOR APPLICATION NUMBER: 09/603124  
 ; PRIOR FILING DATE: 2000-06-23  
 ; PRIOR APPLICATION NUMBER: 60/141031  
 ; PRIOR FILING DATE: 1999-06-25  
 ; PRIOR APPLICATION NUMBER: 60/142101  
 ; PRIOR FILING DATE: 1999-07-02  
 ; PRIOR APPLICATION NUMBER: 60/148613  
 ; PRIOR FILING DATE: 1999-08-12  
 ; PRIOR APPLICATION NUMBER: 60/187970  
 ; PRIOR FILING DATE: 2000-03-09  
 ; PRIOR APPLICATION NUMBER: DE 19931420.9  
 ; PRIOR FILING DATE: 1999-07-08  
 ; NUMBER OF SEQ ID NOS: 125  
 ; SOFTWARE: PatentIn Vers. 2.0  
 ; SEQ ID NO 118  
 ; TYPE: PRT  
 ; LENGTH: 568  
 ; ORGANISM: Corynebacterium glutamicum  
 US-09-746-660A-118

Query Match 9.5%; Score 7; DB 10; Length 568;  
 Best Local Similarity 100.0%; Pred. No. 89;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 37 ALTAVLS 43  
 Db 10 ALTAVLS 16

Search completed: March 17, 2004, 20:08:59  
 Job time : 15.5448 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 17, 2004, 20:02:05 ; Search time 14.0345 Seconds

(without alignment)  
1357.378 Million cell updates/sec

Title: US-10-057-510-2

Perfect score: 398

Sequence: 1 ARAYKMFMEKAGKWC.....ARLXPCGKVGMDVRRWS 74

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1045404 seqs, 257433775 residues

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:\*  
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2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
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10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*  
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14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	394	99.0	74	13	US-10-057-510-2
2	70.5	17.7	48	12	US-10-424-599-248433
3	69	17.3	1032	15	US-09-733-643-16
4	69	17.3	1032	15	US-10-120-801-64
5	65.5	16.5	142	15	US-10-094-749-1973
6	65.5	16.5	383	13	US-09-759-130B-410
7	65.5	16.5	383	13	US-10-042-431-40
8	64	16.1	104	12	US-10-424-599-188820
9	62.5	15.7	331	12	US-10-351-334-309
10	61.5	15.5	330	15	US-10-295-027-1366
11	61.5	15.5	504	15	US-10-104-047-3872
12	61.5	15.5	703	15	US-10-108-260A-4545
13	61.5	15.5	760	15	US-10-295-027-1367
14	60.5	15.2	439	9	US-09-922-501-12
15	60.5	15.2	439	10	US-09-557-796-14

16	60.5	15.2	439	12	US-10-343-359-7	Sequence 7, Appli
17	60.5	15.2	439	12	US-10-343-369-12	Sequence 12, Appl
18	60	15.1	275	12	US-10-424-599-244478	Sequence 244478,
19	60	15.1	514	15	US-10-369-493-8445	Sequence 8445, Ap
20	59.5	14.9	125	12	US-10-425-114-41921	Sequence 41921, A
21	59	14.8	58	12	US-10-424-599-225406	Sequence 225406,
22	58.5	14.7	224	9	US-09-989-920-274	Sequence 274, App
23	58.5	14.7	224	15	US-10-465-572-4	Sequence 4, Appli
24	58.5	14.7	1752	15	US-10-116-275-205	Sequence 205, App
25	58.5	14.7	1752	15	US-10-295-027-360	Sequence 360, App
26	58.5	14.7	1822	15	US-10-295-027-1254	Sequence 1254, Ap
27	58	14.6	130	9	US-09-908-805B-29	Sequence 29, Appl
28	58	14.6	178	12	US-10-424-599-248230	Sequence 248230,
29	57.5	14.4	338	13	US-10-042-417-12	Sequence 12, Appl
30	57.5	14.4	509	14	US-10-156-761-7900	Sequence 7900, Ap
31	57	14.3	295	12	US-10-424-599-183485	Sequence 183485,
32	57	14.3	310	12	US-10-389-647-548	Sequence 548, App
33	56.5	14.2	151	12	US-10-424-599-276840	Sequence 276840,
34	56.5	14.2	252	12	US-10-282-122A-49345	Sequence 49345, A
35	56.5	14.2	385	12	US-10-424-599-178584	Sequence 178584,
36	56	14.1	146	12	US-10-425-114-49716	Sequence 49716, A
37	56	14.1	149	12	US-10-424-599-176646	Sequence 176646,
38	56	14.1	194	14	US-10-017-161-262	Sequence 262, App
39	56	14.1	194	15	US-10-292-798-232	Sequence 232, App
40	56	14.1	303	12	US-10-282-122A-62804	Sequence 62804, A
41	56	14.1	312	12	US-10-282-122A-64448	Sequence 64448, A
42	56	14.1	553	14	US-10-225-567A-520	Sequence 520, App
43	56	14.1	654	15	US-10-369-493-5059	Sequence 5059, Ap
44	56	14.1	772	9	US-09-909-320-339	Sequence 339, App
45	56	14.1	772	9	US-09-909-088B-339	Sequence 339, App

## ALIGNMENTS

### RESULT 1

US-10-057-510-2  
; Sequence 2, Application US/10057510  
; Publication No. US20020098580A1  
; GENERAL INFORMATION:  
; APPLICANT: Nandabalan, Krishnan  
; APPLICANT: Yang, Meijia  
; APPLICANT: Schulz, Vincent  
; APPLICANT: Curagen Corporation  
; TITLE OF INVENTION: MDM INTERACTING PROTEIN AND METHODS OF USE THEREOF  
; FILE REFERENCE: 15966-524 MDM US  
; CURRENT APPLICATION NUMBER: US/10/057,510  
; CURRENT FILING DATE: 2002-01-25  
; PRIOR APPLICATION NUMBER: USSN 09/510,252  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: USSN 60/121,192  
; PRIOR FILING DATE: 1999-02-23  
; PRIOR APPLICATION NUMBER: USSN 60/122,643  
; PRIOR FILING DATE: 1999-03-03  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 74  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Any X can be any amino acid.  
US-10-057-510-2

Query Match 99.0%; Score 394; DB 13; Length 74;

Best Local Similarity 100.0%; Pred. No. 2.3e-41;

Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ARAYKMFMEKAGKWCMPKLIIDTPPSIVAPALTAVLSCQLCSLWVGARLXPC 60

DB 1 ARAYKMFMEKAGKWCMPKLIIDTPPSIVAPALTAVLSCQLCSLWVGARLXPC 60

QY 61 GKVEGMDVRRWS 74

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Db      61 GKVEGMDVWRRWS 74
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RESULT 2
US-10-424-599-248433
; Sequence 248433, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 248433
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURES:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_66365C.1.pap
US-10-424-599-248433

Query Match      17.7%; Score 70.5; DB 12; Length 48;
Best Local Similarity 32.1%; Pred. No. 0.25;
Matches 17; Conservative 7; Mismatches 22; Indels 7; Gaps 1;

Qy      19 WCKMPKLIIDTPPSIVAPALTAVLSQRLCSLWLVGARLXPCGKVEGMDVWR 71
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Db      2 WPLLRSVLSRPFCVAVVLEVALSCLRLSLICIGRFVLAC-----VWAR 47

RESULT 3
US-09-733-643-16
; Sequence 16, Application US/09733643
; Publication No. US20030115627A1
; GENERAL INFORMATION:
; APPLICANT: Laroche, Andre J.
; APPLICANT: Huang, Timothy Y.
; APPLICANT: Frick, Michele M.
; APPLICANT: Lu, Zhen-Xiang
; APPLICANT: Huang, Hung Chang
; APPLICANT: Cheng, Kuo Joan
; TITLE OF INVENTION: Coniothyrium minitans beta-(1,3) exoglucanase gene
; TITLE OF INVENTION: cbeg1
; FILE REFERENCE: 24014US1
; CURRENT APPLICATION NUMBER: US/09/733,643
; CURRENT FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: US 60/170,168
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 1032
; TYPE: PRT
; ORGANISM: Trichoderma harzianum
; FEATURES:
; OTHER INFORMATION: Trexo
US-09-733-643-16

Query Match      17.3%; Score 69; DB 10; Length 1032;
Best Local Similarity 32.2%; Pred. No. 9.3;
Matches 19; Conservative 7; Mismatches 21; Indels 12; Gaps 3;

Qy      12 MEKAGKWCWKMPKLIIDTPP-SIVAPALTAVLSQRLCSLWLVGARLXPCGKVEGMDVW 69
      | : | : | | | | | | | | | | | | | | | | | | | | | |
Db      864 VEYSGEWC-----DTKFQGGGPASDGSQAQCTWTCS-----GAPQTCGPNRLDVI 911

us-10-057-510-2.std.rapb
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RESULT 4
US-10-120-801-64
; Sequence 64, Application US/10120801
; Publication No. US20030203843A1
; GENERAL INFORMATION:
; APPLICANT: Pena, Carol
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shimkete, Richard
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Mehraban, Fuad
; APPLICANT: Topper, James N.
; APPLICANT: Halyankar, Uriel
; APPLICANT: Wasserman, Scott
; APPLICANT: Edinger, Shlomit
; APPLICANT: Smithson, Glennda
; APPLICANT: Gunther, Erik
; APPLICANT: Komuves, Laszlo
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-340
; CURRENT APPLICATION NUMBER: US/10/120,801
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 60/285748
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: 60/286068
; PRIOR FILING DATE: 2001-04-24
; PRIOR APPLICATION NUMBER: 60/286292
; PRIOR FILING DATE: 2001-04-25
; PRIOR APPLICATION NUMBER: 60/288334
; PRIOR FILING DATE: 2001-05-03
; PRIOR APPLICATION NUMBER: 60/291241
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: 60/322284
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/285609
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 64
; LENGTH: 1032
; TYPE: PRT
; ORGANISM: Trichoderma harzianus
US-10-120-801-64

Query Match      17.3%; Score 69; DB 15; Length 1032;
Best Local Similarity 32.2%; Pred. No. 9.3;
Matches 19; Conservative 7; Mismatches 21; Indels 12; Gaps 3;

Qy      12 MEKAGKWCWKMPKLIIDTPP-SIVAPALTAVLSQRLCSLWLVGARLXPCGKVEGMDVW 69
      | : | : | | | | | | | | | | | | | | | | | | | | | |
Db      864 VEYSGEWC-----DTKFQGGGPASDGSQAQCTWTCS-----GAPQTCGPNRLDVI 911

RESULT 5
US-10-094-749-1973
; Sequence 1973, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
US-10-094-749-1973
```



APPLICANT: YOSHIKAWA, TSUTOMU  
APPLICANT: OTSUKA, MOTOKI  
APPLICANT: NAGAHARI, KENJI  
APPLICANT: MASUHO, YASUHIKO  
TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA  
FILE REFERENCE: 084335/0160  
CURRENT APPLICATION NUMBER: US/10/094,749  
CURRENT FILING DATE: 2002-03-12  
PRIOR APPLICATION NUMBER: 60/350,435  
PRIOR FILING DATE: 2002-01-24  
PRIOR APPLICATION NUMBER: JP 2001-328381  
PRIOR FILING DATE: 2001-09-14  
NUMBER OF SEQ ID NOS: 3381  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 1973  
LENGTH: 142  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-094-749-1973

Query Match 16.5%; Score 65.5; DB 15; Length 142;  
Best Local Similarity 30.3%; Pred. No. 3.2; Mismatches 9; Indels 22; Gaps 4;  
Matches 20; Conservative 9

Qy 19 WCKMPKLIIDTPPSI--VAPAL-----TAVLSQRLCSLWLVGARLXPCGVKGMDV-- 68  
Db 2 WALMPRRFTVWPLKLCNISPLGPGTGTGVSVP---PCLWIRALRALPATWLCLEGMECDV 58

Qy 69 --WRRR 72  
Db 59 GGWRRR 64

RESULT 6  
US-09-759-130B-410  
Sequence 410, Application US/09759130B  
Publication No. US2003002279A1  
GENERAL INFORMATION:  
APPLICANT: Millennium Pharmaceuticals, Inc.  
APPLICANT: McCarthy, Sean A  
APPLICANT: Fraser, Christopher C  
APPLICANT: Sharp, John D  
APPLICANT: Barnes, Thomas S  
APPLICANT: Kirst, Susan J  
APPLICANT: Mackay, Charles R  
APPLICANT: Myers, Paul S  
APPLICANT: Leiby, Kevin R  
APPLICANT: Wrighton, Nicolas  
APPLICANT: Goodearl, Andrew  
APPLICANT: Holtzman, Douglas A  
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING  
TITLE OF INVENTION: PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER  
TITLE OF INVENTION: USES  
FILE REFERENCE: MP100-5350NNIM  
CURRENT APPLICATION NUMBER: US/09/759,130B  
CURRENT FILING DATE: 2002-09-16  
PRIOR APPLICATION NUMBER: US 09/479,249  
PRIOR FILING DATE: 2000-01-07  
PRIOR APPLICATION NUMBER: US 09/559,497  
PRIOR FILING DATE: 2000-04-27  
PRIOR APPLICATION NUMBER: US 09/578,063  
PRIOR FILING DATE: 2000-05-24  
PRIOR APPLICATION NUMBER: US 09/333,159  
PRIOR FILING DATE: 1999-06-14  
PRIOR APPLICATION NUMBER: US 09/596,194  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: US 09/342,364  
PRIOR FILING DATE: 1999-06-29  
PRIOR APPLICATION NUMBER: US 09/608,452  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/393,996  
PRIOR FILING DATE: 1999-09-10  
PRIOR APPLICATION NUMBER: US 09/602,871

PRIOR FILING DATE: 2000-06-23  
PRIOR APPLICATION NUMBER: US 09/420,707  
PRIOR FILING DATE: 1999-10-19  
NUMBER OF SEQ ID NOS: 460  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 410  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-759-130B-410

Query Match 16.5%; Score 65.5; DB 10; Length 383;  
Best Local Similarity 30.2%; Pred. No. 9;  
Matches 13; Conservative 8; Mismatches 19; Indels 3; Gaps 1;  
Matches 13

Qy 18 CWCKMPKLIIDTPPSIVAPALTAVLSQRLCSLWLVGARLXPC 60  
Db 185 CWCLSVVLMFLPHNAYKSILATGISCILACLVYLL---LSPC 224

RESULT 7  
US-10-042-431-40  
Sequence 40, Application US/10042431  
Publication No. US20020182675A1  
GENERAL INFORMATION:  
APPLICANT: MCCARTHY, Sean A  
APPLICANT: BARNES, Thomas M  
APPLICANT: FRASER, Christopher C  
APPLICANT: SHARP, John D  
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING DIAGNOSTIC,  
TITLE OF INVENTION: PREVENTIVE, THERAPEUTIC, AND OTHER USES  
FILE REFERENCE: 10147-6U2  
CURRENT APPLICATION NUMBER: US/10/042,431  
CURRENT FILING DATE: 2001-10-25  
PRIOR APPLICATION NUMBER: US 09/333,159  
PRIOR FILING DATE: 1999-06-14  
PRIOR APPLICATION NUMBER: US 09/578,063  
PRIOR FILING DATE: 2000-05-24  
NUMBER OF SEQ ID NOS: 79  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 40  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Caenorhabditis elegans  
US-10-042-431-40

Query Match 16.5%; Score 65.5; DB 13; Length 383;  
Best Local Similarity 30.2%; Pred. No. 9;  
Matches 13; Conservative 8; Mismatches 19; Indels 3; Gaps 1;  
Matches 13

Qy 18 CWCKMPKLIIDTPPSIVAPALTAVLSQRLCSLWLVGARLXPC 60  
Db 185 CWCLSVVLMFLPHNAYKSILATGISCILACLVYLL---LSPC 224

RESULT 8  
US-10-424-599-188820  
Sequence 188820, Application US/10424599  
Publication No. US20040031072A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa Thomas J  
APPLICANT: Kovalic David K  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424,599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 188820  
LENGTH: 104  
TYPE: PRT

\* ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(104)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_141519C.1.pap  
US-10-424-599-188820

Query Match 16.1%; Score 64; DB 12; Length 104;  
Best Local Similarity 30.5%; Pred. No. 3.6;  
Matches 18; Conservative 9; Mismatches 20; Indels 12; Gaps 3;

Qy 23 PKLIIDTPF-----SIVA-PALTAVL-----SQLRCSLWLVGRLXPGKVGMDVM 69  
Db 8 PLCVWASFFRVSVAAACVLSCLACRLACSCRIRAPCWGVGLSCGRSLGACLM 66

## RESULT 9

US-10-351-334-309  
; Sequence 309, Application US/10351334  
; Publication No. US20040034196A1  
; GENERAL INFORMATION:  
; APPLICANT: Komatsoulis et al  
; TITLE OF INVENTION: 98 Human Secreted Proteins  
; FILE REFERENCE: P2031P2  
; CURRENT APPLICATION NUMBER: US/10/351,334  
; PRIOR FILING DATE: 2003-01-27  
; PRIOR FILING DATE: 2003-01-27  
; PRIOR FILING DATE: 2002-01-25  
; PRIOR FILING DATE: 2002-01-25  
; PRIOR FILING DATE: 2002-01-25  
; PRIOR FILING DATE: 2000-01-24  
; PRIOR FILING DATE: 2000-01-24  
; PRIOR FILING DATE: 1999-07-29  
; PRIOR FILING DATE: 1998-07-30  
; PRIOR FILING DATE: 1998-07-30  
; PRIOR FILING DATE: 1998-08-05  
; PRIOR FILING DATE: 1998-08-12  
; PRIOR FILING DATE: 1998-08-12  
; PRIOR FILING DATE: 1998-08-06  
; PRIOR FILING DATE: 1998-08-06  
; PRIOR FILING DATE: 1998-08-06  
; NUMBER OF SEQ ID NOS: 376  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 309  
; LENGTH: 331  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-351-334-309

Query Match 15.7%; Score 62.5; DB 12; Length 331;  
Best Local Similarity 30.8%; Pred. No. 18;  
Matches 16; Conservative 13; Mismatches 14; Indels 9; Gaps 2;

Qy 21 KMPKLIIDTPPSIVAPALTAVLSQLRCSLWLVGRLXPGKVGMDVMWR 72  
Db 53 ELPENILLELTHV-PARQLLNCRLVGLWR-----DLIDLMTLWRRK 95

## RESULT 10

US-10-295-027-1366  
; Sequence 1366, Application US/10295027  
; Publication No. US20030232350A1  
; GENERAL INFORMATION:  
; APPLICANT: Afar, Daniel  
; APPLICANT: Aziz, Natasha  
; APPLICANT: Ginsberg, Wendy M.  
; APPLICANT: Gish, Kurt C.  
; APPLICANT: Glynn, Richard  
; APPLICANT: Hevezi, Peter A.  
; APPLICANT: Mack, David H.

; APPLICANT: Murray, Richard  
; APPLICANT: Watson, Susan R.  
; APPLICANT: Eos Biotechnology, Inc.  
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and  
; FILE REFERENCE: 018501-012500US  
; CURRENT APPLICATION NUMBER: US/10/295,027  
; CURRENT FILING DATE: 2002-11-13  
; PRIOR APPLICATION NUMBER: US 09/663,733  
; PRIOR FILING DATE: 2000-09-15  
; PRIOR APPLICATION NUMBER: US 60/350,666  
; PRIOR FILING DATE: 2001-11-13  
; PRIOR APPLICATION NUMBER: US 60/335,394  
; PRIOR FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: US 60/332,464  
; PRIOR FILING DATE: 2001-11-21  
; PRIOR APPLICATION NUMBER: US 60/334,393  
; PRIOR FILING DATE: 2001-11-29  
; PRIOR APPLICATION NUMBER: US 60/340,376  
; PRIOR FILING DATE: 2001-12-14  
; PRIOR APPLICATION NUMBER: US 60/347,211  
; PRIOR FILING DATE: 2002-01-08  
; PRIOR APPLICATION NUMBER: US 60/347,349  
; PRIOR FILING DATE: 2002-01-10  
; PRIOR APPLICATION NUMBER: US 60/355,250  
; PRIOR FILING DATE: 2002-02-08  
; PRIOR APPLICATION NUMBER: US 60/356,714  
; PRIOR FILING DATE: 2002-02-13  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 1386  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 1366  
; LENGTH: 330  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-295-027-1366

Query Match 15.5%; Score 61.5; DB 15; Length 330;  
Best Local Similarity 28.2%; Pred. No. 24;  
Matches 20; Conservative 13; Mismatches 27; Indels 11; Gaps 5;

Qy 4 YXKMFNFM--EKAGKWCWKPKLIIIDTPPSIVAPALTAVLSQLRCSLWLVGRLXPG-- 59  
Db 134 YSKNISLWNNFQPPSKAW-RASQMTFFIFLLFPSPFTGVL-CTLAITW----RLKPSA 187

Qy 60 -CGKVGMDVM 69  
Db 188 DCGPFRGLPLF 198

## RESULT 11

US-10-104-047-3872  
; Sequence 3872, Application US/10104047  
; Publication No. US20030236392A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. US20030236392A1el full length cDNA  
; FILE REFERENCE: HI-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3872  
; LENGTH: 504  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-3872

Query Match 15.5%; Score 61.5; DB 15; Length 504;  
Best Local Similarity 28.2%; Pred. No. 38;  
Matches 20; Conservative 13; Mismatches 27; Indels 11; Gaps 5;

RESULT 13  
US-10-295-027-1367  
; Sequence 1367, Application US/10295027  
; Publication No. US20030232350A1  
; GENERAL INFORMATION:  
; APPLICANT: Afar, Daniel  
; APPLICANT: Aziz, Natasha  
; APPLICANT: Ginsberg, Wendy M.  
; APPLICANT: Gish, Kurt C.  
; APPLICANT: Glynn, Richard  
; APPLICANT: Hevezi, Peter A.  
; APPLICANT: Mack, David H.  
; APPLICANT: Murray, Richard  
; APPLICANT: Watson, Susan R.  
; APPLICANT: Eos Biotechnology, Inc.  
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and  
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer  
; FILE REFERENCE: 018501-012500US  
; CURRENT APPLICATION NUMBER: US/10/295,027  
; CURRENT FILING DATE: 2002-11-13  
; PRIOR APPLICATION NUMBER: US 09/663,733  
; PRIOR FILING DATE: 2000-09-15  
; PRIOR APPLICATION NUMBER: US 60/350,666  
; PRIOR FILING DATE: 2001-11-13  
; PRIOR APPLICATION NUMBER: US 60/335,394  
; PRIOR FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: US 60/332,464  
; PRIOR FILING DATE: 2001-11-21  
; PRIOR APPLICATION NUMBER: US 60/334,393  
; PRIOR FILING DATE: 2001-11-29  
; PRIOR APPLICATION NUMBER: US 60/340,376  
; PRIOR FILING DATE: 2001-12-14

RESULT 15  
US-09-557-796-14  
; Sequence 14, Application US/09557796  
; Publication No. US20030073140A1  
; GENERAL INFORMATION:  
; APPLICANT: Hoch, James  
; APPLICANT: Dartois, Veronique  
; TITLE OF INVENTION: METABOLIC SELECTION METHODS  
; FILE REFERENCE: 234/191

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; CURRENT APPLICATION NUMBER: US/09/557,796
; CURRENT FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/172,952
; PRIOR FILING DATE: 1998-10-14
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 439
; TYPE: PRT
; ORGANISM: Yiax2
US-09-557-796-14

Query Match      15.2%; Score 60.5; DB 10; Length 439;
Best Local Similarity 32.7%; Pred. No. 43;
Matches 18; Conservative 8; Mismatches 22; Indels 7; Gaps 2;

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Job time : 15.0345 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 17, 2004, 20:03:25 ; Search time 42,4552 Seconds

(without alignments)  
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Title: US-10-057-510-4

Perfect score: 216

Sequence: 1 MONTNMSVPTDGAVTTSQIP.....ALCVIREICRSSSSSTG 216

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Gapex 60.0 , Gapex 60.0

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Word size : 0

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

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Post-processing: Listing first 45 summaries

Database : Published Applications AA:\*

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18: /cgn2\_6/prodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	216	100.0	216	13	US-10-057-510-4
2	159	73.6	491	9	US-09-888-077-1
3	159	73.6	491	9	US-09-956-425-8
4	159	73.6	491	10	US-09-029-327-2
5	159	73.6	491	12	US-10-232-951-35
6	159	73.6	491	15	US-10-422-536-137
7	42	19.4	59	14	US-10-211-088-143
8	29	13.4	489	9	US-09-956-425-6
9	8	3.7	95	9	US-09-956-425-18
10	8	3.7	95	9	US-09-956-425-21
11	8	3.7	95	9	US-09-956-425-22
12	8	3.7	876	13	US-10-078-929-206
13	8	3.7	876	16	US-10-389-566-2043
14	8	3.7	876	16	US-10-389-566-2176
15	8	3.7	910	16	US-10-389-566-2431

16	7	3.2	8	12	US-10-609-217-523	Sequence 523, App
17	7	3.2	12	12	US-10-609-217-517	Sequence 517, App
18	7	3.2	12	12	US-10-609-217-510	Sequence 520, App
19	7	3.2	12	12	US-10-609-217-587	Sequence 587, App
20	7	3.2	12	12	US-10-609-217-589	Sequence 589, App
21	7	3.2	13	12	US-10-609-217-586	Sequence 586, App
22	7	3.2	18	12	US-10-232-410-9	Sequence 9, Appli
23	7	3.2	20	9	US-09-865-553-2	Sequence 2, Appli
24	7	3.2	42	12	US-10-351-334-223	Sequence 223, App
25	7	3.2	49	9	US-09-864-761-41464	Sequence 41464, A
26	7	3.2	56	9	US-09-864-761-35082	Sequence 35082, A
27	7	3.2	56	12	US-10-351-334-376	Sequence 376, App
28	7	3.2	85	12	US-10-424-599-238919	Sequence 238919,
29	7	3.2	87	12	US-10-424-599-205364	Sequence 205364,
30	7	3.2	95	9	US-09-956-425-19	Sequence 19, Appl
31	7	3.2	95	9	US-09-956-425-20	Sequence 20, Appl
32	7	3.2	111	12	US-10-424-599-160053	Sequence 160053,
33	7	3.2	123	12	US-10-424-599-202275	Sequence 202275,
34	7	3.2	128	12	US-10-424-599-267725	Sequence 267725,
35	7	3.2	128	12	US-10-425-114-42724	Sequence 42724, A
36	7	3.2	133	12	US-10-424-599-202331	Sequence 202331,
37	7	3.2	137	12	US-10-412-699B-904	Sequence 904, App
38	7	3.2	141	12	US-10-425-114-37238	Sequence 37238, A
39	7	3.2	142	14	US-10-156-761-10181	Sequence 10181, A
40	7	3.2	150	10	US-09-847-208-106	Sequence 106, App
41	7	3.2	158	12	US-10-425-114-49524	Sequence 49524, A
42	7	3.2	160	9	US-09-798-042-100	Sequence 100, App
43	7	3.2	161	9	US-09-798-042-105	Sequence 106, App
44	7	3.2	164	12	US-10-424-599-272091	Sequence 272091,
45	7	3.2	186	12	US-10-424-599-219521	Sequence 219521,

#### ALIGNMENTS

#### RESULT 1

US-10-057-510-4  
; Sequence 4, Application US/10057510  
; Publication No. US20020098580A1  
; GENERAL INFORMATION:  
; APPLICANT: Nandabalan, Krishnan  
; APPLICANT: Yang, Meijia  
; APPLICANT: Schulz, Vincent  
; APPLICANT: Curagen Corporation  
; TITLE OF INVENTION: MDM INTERACTING PROTEIN AND METHODS OF USE THEREOF  
; FILE REFERENCE: 15966-524 MDM US  
; CURRENT APPLICATION NUMBER: US/10/057,510  
; CURRENT FILING DATE: 2002-01-25  
; PRIOR APPLICATION NUMBER: USSN 09/510,252  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: USSN 60/121,192  
; PRIOR FILING DATE: 1999-02-23  
; PRIOR APPLICATION NUMBER: USSN 60/122,643  
; PRIOR FILING DATE: 1999-03-03  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn-Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 216  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-057-510-4

Query Match 100.0%; Score 216; DB 13; Length 216;  
Best Local Similarity 100.0%; Pred. No. 36-195; Indels 0; Gaps 0;  
Matches 216; Conservative 0; Mismatches 0;

QY	1	MONTNMSVPTDGAVTTSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEVFLVQYI	60
DB	1	MONTNMSVPTDGAVTTSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEVFLVQYI	60
QY	61	MTKRLYDEKQKHIVYCSNDLLGLDFGVPSFVKEHKRIYTMIRNLVYVNOQSSDSGTS	120
DB	61	MTKRLYDEKQKHIVYCSNDLLGLDFGVPSFVKEHKRIYTMIRNLVYVNOQSSDSGTS	120

Qy 121 VSENRCHEGSDQKDLVQELQEKPSHLSVRPSTSSRRRAISETTEENSDELSEGR 180  
Db 121 VSENRCHEGSDQKDLVQELQEKPSHLSVRPSTSSRRRAISETTEENSDELSEGR 180  
Qy 181 KRHKSDSISLSDLSLALCVIREICCCRSSSESTG 216  
Db 181 KRHKSDSISLSDLSLALCVIREICCCRSSSESTG 216

## RESULT 2

US-09-888-077-1

; Sequence 1, Application US/09888077  
; Patent No. US20020031818A1  
; GENERAL INFORMATION:  
; APPLICANT: Ronai, Ze'ev  
; APPLICANT: Fuchs, Serge  
; TITLE OF INVENTION: Modification of Mdm2 Activity  
; FILE REFERENCE: 2420/H195-US1  
; CURRENT APPLICATION NUMBER: US/09/888,077  
; CURRENT FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,343  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 491  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-888-077-1

Query Match 73.6%; Score 159; DB 9; Length 491;  
Best Local Similarity 100.0%; Pred. No. 3.2e-141;  
Matches 159; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 58 QYIMTKRLYDEKQKHIVVCSNDLLGDLFGVPSFVKEHKIYTIYRNLVVNQESSDS 117  
Db 59 QYIMTKRLYDEKQKHIVVCSNDLLGDLFGVPSFVKEHKIYTIYRNLVVNQESSDS 118  
Qy 118 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVRPSTSSRRRAISETTEENSDELSE 177  
Db 119 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVRPSTSSRRRAISETTEENSDELSE 178  
Qy 178 RQRKRKSDSISLSDLSLALCVIREICCCRSSSESTG 216  
Db 179 RQRKRKSDSISLSDLSLALCVIREICCCRSSSESTG 217

## RESULT 3

US-09-956-425-8  
; Sequence 8, Application US/09956425  
; Patent No. US20020045192A1  
; GENERAL INFORMATION:  
; APPLICANT: Kriwacki, Richard  
; APPLICANT: Bothner, Brian  
; APPLICANT: Lewis, William  
; TITLE OF INVENTION: Aif and Hdm2 Interaction Domains and Method of Use Thereof  
; FILE REFERENCE: 1340/1/035  
; CURRENT APPLICATION NUMBER: US/09/956,425  
; CURRENT FILING DATE: 2001-09-19  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 8  
; LENGTH: 491  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-956-425-8

Query Match 73.6%; Score 159; DB 9; Length 491;  
Best Local Similarity 100.0%; Pred. No. 3.2e-141;  
Matches 159; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 58 QYIMTKRLYDEKQKHIVVCSNDLLGDLFGVPSFVKEHKIYTIYRNLVVNQESSDS 117

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Qy 118 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVRPSTSSRRRAISETTEENSDELSE 177  
Db 119 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVRPSTSSRRRAISETTEENSDELSE 178  
Qy 178 RQRKRKSDSISLSDLSLALCVIREICCCRSSSESTG 216  
Db 179 RQRKRKSDSISLSDLSLALCVIREICCCRSSSESTG 217

## RESULT 4

US-09-029-327-2

; Sequence 2, Application US/09029327  
; Publication No. US20030060432A1  
; GENERAL INFORMATION:  
; APPLICANT: TOCQUE, Bruno  
; APPLICANT: WASLYK, Bohdan  
; APPLICANT: DUBS-POTERSZMAN,  
; APPLICANT: Marie-Christine  
; TITLE OF INVENTION: ANTAGONISTS OF THE ONCOGENIC ACTIVITY OF  
; TITLE OF INVENTION: THE PROTEIN MDM2, AND USE THEREOF IN THE TREATMENT OF  
; TITLE OF INVENTION: CANCERS  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Rhone-Poulenc Rorer Inc.  
; STREET: 500 Arcola Road, Mailstop 3C43  
; CITY: Collegeville  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19426  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/029,327  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; PRIOR APPLICATION NUMBER: FR 96/01340  
; FILING DATE: 02-SEP-1996  
; PRIOR APPLICATION DATA: WO FR95/10331  
; APPLICATION NUMBER: 04-SEP-1995  
; FILING DATE: 04-SEP-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fehlner Esq., Paul F.  
; REGISTRATION NUMBER: 35,135  
; REFERENCE/DOCKET NUMBER: ST95050-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (610) 454-3839  
; TELEFAX: (610) 454-3808  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 491 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-029-327-2

Query Match 73.6%; Score 159; DB 10; Length 491;  
Best Local Similarity 100.0%; Pred. No. 3.2e-141;  
Matches 159; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 58 QYIMTKRLYDEKQKHIVVCSNDLLGDLFGVPSFVKEHKIYTIYRNLVVNQESSDS 117  
Db 59 QYIMTKRLYDEKQKHIVVCSNDLLGDLFGVPSFVKEHKIYTIYRNLVVNQESSDS 118  
Qy 118 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVRPSTSSRRRAISETTEENSDELSE 177  
Db 119 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVRPSTSSRRRAISETTEENSDELSE 178

QY 178 RQRKHKSDSISLSPDESALCVIREICERSSSESTG 216  
DB 179 RQRKHKSDSISLSPDESALCVIREICERSSSESTG 217

RESULT 5

US-10-232-951-35  
; Sequence 35, Application US/10232951  
; Publication No. US20040043386A1  
; GENERAL INFORMATION:  
; APPLICANT: Pray, Todd  
; APPLICANT: Wong, Brian  
; APPLICANT: Bennett, Mark  
; APPLICANT: Parlati, Francesco  
; APPLICANT: Rigel Pharmaceuticals, Incorporated  
; TITLE OF INVENTION: Methods and Compositions for Functional Ubiquitin  
; FILE OF INVENTION: Assays  
; FILE REFERENCE: 021044-006800US  
; CURRENT APPLICATION NUMBER: US/10/232,951  
; CURRENT FILING DATE: 2002-08-30  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 35  
; LENGTH: 491  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: E3 ubiquitin ligating agent mouse double minute 2  
; OTHER INFORMATION: (mdm2) homolog full length protein isoform, mouse  
; OTHER INFORMATION: p53-binding protein (MDM2) homolog, transcript  
; OTHER INFORMATION: variant MDM2, transformed 3T3 cell double minute 2,  
; OTHER INFORMATION: Mdm2 cDNA  
US-10-232-951-35

Query Match 73.6%; Score 159; DB 12; Length 491;  
Best Local Similarity 100.0%; Pred. No. 3.2e-141; Indels 0; Gaps 0;  
Matches 159; Conservative 0; Mismatches 0;  
QY 58 QYIMTKRLYDEKQKHIVYCSNDLLGDLFGVPFVSFKVKEHKIYTMIVRNLVVNVNQSSSDS 117  
DB 59 QYIMTKRLYDEKQKHIVYCSNDLLGDLFGVPFVSFKVKEHKIYTMIVRNLVVNVNQSSSDS 118  
QY 118 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISTEENSDELSCG 177  
DB 119 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISTEENSDELSCG 178  
QY 178 RQRKHKSDSISLSPDESALCVIREICERSSSESTG 216  
DB 179 RQRKHKSDSISLSPDESALCVIREICERSSSESTG 217

RESULT 6

US-10-422-536-137  
; Sequence 137, Application US/10422536  
; Publication No. US20040014100A1  
; GENERAL INFORMATION:  
; APPLICANT: Kinsella, Todd  
; APPLICANT: Lorens, James  
; APPLICANT: Pray, Todd  
; APPLICANT: Bennett, Mark  
; TITLE OF INVENTION: IN VIVO PRODUCTION OF CYCLIC PEPTIDES FOR INHIBITING  
; TITLE OF INVENTION: PROTEIN-PROTEIN INTERACTION  
; FILE REFERENCE: A-71433-1/AMP/CYO  
; CURRENT APPLICATION NUMBER: US/10/422,536  
; CURRENT FILING DATE: 2003-04-23  
; PRIOR APPLICATION NUMBER: US 60/187,130  
; PRIOR FILING DATE: 2000-03-06  
; PRIOR APPLICATION NUMBER: US 09/800,770  
; PRIOR FILING DATE: 2001-03-06  
; PRIOR APPLICATION NUMBER: US 10/232,758  
; PRIOR FILING DATE: 2002-08-30  
; NUMBER OF SEQ ID NOS: 168

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 137  
; LENGTH: 491  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-422-536-137

Query Match 73.6%; Score 159; DB 15; Length 491;  
Best Local Similarity 100.0%; Pred. No. 3.2e-141; Indels 0; Gaps 0;  
Matches 159; Conservative 0; Mismatches 0;  
QY 58 QYIMTKRLYDEKQKHIVYCSNDLLGDLFGVPFVSFKVKEHKIYTMIVRNLVVNVNQSSSDS 117  
DB 59 QYIMTKRLYDEKQKHIVYCSNDLLGDLFGVPFVSFKVKEHKIYTMIVRNLVVNVNQSSSDS 118  
QY 118 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISTEENSDELSCG 177  
DB 119 GTSVSENRCHEGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISTEENSDELSCG 178  
QY 178 RQRKHKSDSISLSPDESALCVIREICERSSSESTG 216  
DB 179 RQRKHKSDSISLSPDESALCVIREICERSSSESTG 217

RESULT 7

US-10-211-088-143  
; Sequence 143, Application US/10211088  
; Publication No. US20030104479A1  
; GENERAL INFORMATION:  
; APPLICANT: Bright, Gary R.  
; APPLICANT: Premkumar, D. David  
; APPLICANT: Chen, Yih-Tai  
; TITLE OF INVENTION: No. US20030104479A1el Fusion Proteins And Assays For Molecular Bi:  
; FILE REFERENCE: 01-1022-US  
; CURRENT APPLICATION NUMBER: US/10/211,088  
; CURRENT FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: 60/309,395  
; PRIOR FILING DATE: 2001-08-01  
; PRIOR APPLICATION NUMBER: 60/341,589  
; PRIOR FILING DATE: 2001-12-13  
; NUMBER OF SEQ ID NOS: 366  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 143  
; LENGTH: 59  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Binding domain  
US-10-211-088-143

Query Match 19.4%; Score 42; DB 14; Length 59;  
Best Local Similarity 100.0%; Pred. No. 9.1e-32; Indels 0; Gaps 0;  
Matches 42; Conservative 0; Mismatches 0;  
QY 58 QYIMTKRLYDEKQKHIVYCSNDLLGDLFGVPFVSFKVKEHKIY 99  
DB 18 QYIMTKRLYDEKQKHIVYCSNDLLGDLFGVPFVSFKVKEHKIY 59

RESULT 8

US-09-956-425-6  
; Sequence 6, Application US/09956425  
; Patent No. US20020045192A1  
; GENERAL INFORMATION:  
; APPLICANT: Kiwacki, Richard  
; APPLICANT: Bothner, Brian  
; APPLICANT: Lewis, William  
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof  
; FILE REFERENCE: 1340/1/035  
; CURRENT APPLICATION NUMBER: US/09/956,425  
; CURRENT FILING DATE: 2001-09-19  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn version 3.1

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; SEQ ID NO 6
; LENGTH: 489
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-956-425-6

Query Match      13.4%; Score 29; DB 9; Length 489;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 16 TSOIPASEQETLVRPKPLLLKLLKSVGAQ 44
Db 16 TSOIPASEQETLVRPKPLLLKLLKSVGAQ 44

RESULT 9
US-09-956-425-18
; Sequence 18, Application US/09956425
; Patent No. US20020045192A1
; GENERAL INFORMATION:
; APPLICANT: Kriwacki, Richard
; APPLICANT: Bothner, Brian
; APPLICANT: Lewis, William
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof
; FILE REFERENCE: 1340/1/035
; CURRENT APPLICATION NUMBER: US/09/956,425
; CURRENT FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-956-425-18

Query Match      3.7%; Score 8; DB 9; Length 95;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 209 SSSSESTG 216
Db 1 SSSSESTG 8

RESULT 10
US-09-956-425-21
; Sequence 21, Application US/09956425
; Patent No. US20020045192A1
; GENERAL INFORMATION:
; APPLICANT: Kriwacki, Richard
; APPLICANT: Bothner, Brian
; APPLICANT: Lewis, William
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof
; FILE REFERENCE: 1340/1/035
; CURRENT APPLICATION NUMBER: US/09/956,425
; CURRENT FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 95
; TYPE: PRT
; ORGANISM: horse
US-09-956-425-21

Query Match      3.7%; Score 8; DB 9; Length 95;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 209 SSSSESTG 216
Db 1 SSSSESTG 8

RESULT 11
US-09-956-425-22
; Sequence 22, Application US/09956425
; Patent No. US20020045192A1
; GENERAL INFORMATION:
; APPLICANT: Kriwacki, Richard
; APPLICANT: Bothner, Brian
; APPLICANT: Lewis, William
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof
; FILE REFERENCE: 1340/1/035
; CURRENT APPLICATION NUMBER: US/09/956,425
; CURRENT FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 95
; TYPE: PRT
; ORGANISM: dog
US-09-956-425-22

Query Match      3.7%; Score 8; DB 9; Length 95;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 209 SSSSESTG 216
Db 1 SSSSESTG 8

RESULT 12
US-10-078-929-206
; Sequence 206, Application US/10078929
; Publication No. US20020152497A1
; GENERAL INFORMATION:
; APPLICANT: Rafaleki, Antoni
; APPLICANT: Miao, Guo-Hua
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Sakai, Hajime
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Odell, Joan T.
; APPLICANT: Meyers, Blake
; APPLICANT: Thorpe, Catherine
; APPLICANT: Weng, Zude
; TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
; FILE REFERENCE: BB1357 US NA
; CURRENT APPLICATION NUMBER: US/10/078,929
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: 09/566,394
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/133038
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133042
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133427
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133437
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133428
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133438
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133436
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/137667
; PRIOR FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 206
; LENGTH: 876
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-078-929-206
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Query Match 3.7%; Score 8; DB 13; Length 876;  
Best Local Similarity 100.0%; Pred. No. 1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEQETLVR 29  
Db 471 SEQETLVR 478

## RESULT 13

US-10-389-566-2043  
; Sequence 2043, Application US/10389566  
; Publication No. US20040025202A1  
; GENERAL INFORMATION:  
; APPLICANT: Monsanto Technology, LLC  
; APPLICANT: Laurie, Cathy C  
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants  
; FILE REFERENCE: 38-77(52900)D  
; CURRENT APPLICATION NUMBER: US/10/389,566  
; CURRENT FILING DATE: 2003-03-31  
; PRIOR APPLICATION NUMBER: US 60/365,301  
; PRIOR FILING DATE: 2002-03-15  
; PRIOR APPLICATION NUMBER: US 60/391,786  
; PRIOR FILING DATE: 2002-06-25  
; PRIOR APPLICATION NUMBER: US 60/392,018  
; PRIOR FILING DATE: 2002-06-26  
; NUMBER OF SEQ ID NOS: 2459  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 2043  
; LENGTH: 876  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-10-389-566-2043

Query Match 3.7%; Score 8; DB 16; Length 876;  
Best Local Similarity 100.0%; Pred. No. 1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEQETLVR 29  
Db 471 SEQETLVR 478

## RESULT 14

US-10-389-566-2176  
; Sequence 2176, Application US/10389566  
; Publication No. US20040025202A1  
; GENERAL INFORMATION:  
; APPLICANT: Monsanto Technology, LLC  
; APPLICANT: Laurie, Cathy C  
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants  
; FILE REFERENCE: 38-77(52900)D  
; CURRENT APPLICATION NUMBER: US/10/389,566  
; CURRENT FILING DATE: 2003-03-31  
; PRIOR APPLICATION NUMBER: US 60/365,301  
; PRIOR FILING DATE: 2002-03-15  
; PRIOR APPLICATION NUMBER: US 60/391,786  
; PRIOR FILING DATE: 2002-06-25  
; PRIOR APPLICATION NUMBER: US 60/392,018  
; PRIOR FILING DATE: 2002-06-26  
; NUMBER OF SEQ ID NOS: 2459  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 2176  
; LENGTH: 876  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-10-389-566-2176

Query Match 3.7%; Score 8; DB 16; Length 876;  
Best Local Similarity 100.0%; Pred. No. 1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEQETLVR 29  
Db 471 SEQETLVR 478

## RESULT 15

US-10-389-566-2431  
; Sequence 2431, Application US/10389566  
; Publication No. US20040025202A1  
; GENERAL INFORMATION:  
; APPLICANT: Monsanto Technology, LLC  
; APPLICANT: Laurie, Cathy C  
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants  
; FILE REFERENCE: 38-77(52900)D  
; CURRENT APPLICATION NUMBER: US/10/389,566  
; CURRENT FILING DATE: 2003-03-31  
; PRIOR APPLICATION NUMBER: US 60/365,301  
; PRIOR FILING DATE: 2002-03-15  
; PRIOR APPLICATION NUMBER: US 60/391,786  
; PRIOR FILING DATE: 2002-06-25  
; PRIOR APPLICATION NUMBER: US 60/392,018  
; PRIOR FILING DATE: 2002-06-26  
; NUMBER OF SEQ ID NOS: 2459  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 2431  
; LENGTH: 910  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-10-389-566-2431

Query Match 3.7%; Score 8; DB 16; Length 910;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEQETLVR 29  
Db 459 SEQETLVR 466

Search completed: March 17, 2004, 20:09:00  
Job time : 43.4552 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 17, 2004, 20:02:05 ; Search time 40.9655 Seconds  
(without alignments)  
1357.378 Million cell updates/sec

Title: US-10-057-510-4

Perfect score: 1095

Sequence: 1 MCNTNMSVPTDCAVTTSQIP.....ALCVIREICRSSHSESTG 216

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Gapop 10.0 , Gapext 0.5

Searched: 1045404 seqs, 257433775 residues

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
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- 6: /cgn2\_6/ptodata/1/pubpaa/PCTU5\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1095	100.0	216	13	US-10-057-510-4
2	1084.5	99.0	491	9	Sequence 4, Appli
3	1084.5	99.0	491	9	Sequence 1, Appli
4	1084.5	99.0	491	9	Sequence 8, Appli
5	1084.5	99.0	491	10	Sequence 2, Appli
6	1084.5	99.0	491	12	Sequence 35, Appli
7	1084.5	99.0	491	15	Sequence 137, App
8	1084.5	73.5	489	9	Sequence 6, Appli
9	297.5	27.2	59	14	Sequence 143, App
10	127	11.6	251	12	Sequence 269551
11	100	9.1	2184	14	Sequence 6, Appli
12	93.5	8.7	685	12	Sequence 262637
13	93	8.5	257	12	Sequence 38125, A
14	93	8.5	485	11	Sequence 1730, Ap
15	93	8.5	485	11	Sequence 1731, Ap
16	93	8.5	485	11	Sequence 1732, Ap

16	92.5	8.4	433	8	US-08-945-038-6	Sequence 6, Appli
17	91	8.3	551	12	US-10-425-114-50108	Sequence 50108, A
18	90.5	8.3	348	12	US-10-425-114-64733	Sequence 64733, A
19	89.5	8.2	204	12	US-10-424-599-277866	Sequence 277866,
20	89.5	8.2	963	14	US-10-078-531-5	Sequence 5, Appli
21	89	8.1	951	14	US-10-078-531-3	Sequence 3, Appli
22	89	8.1	969	14	US-10-078-531-8	Sequence 8, Appli
23	89	8.1	971	14	US-10-078-531-7	Sequence 7, Appli
24	89	8.1	1008	14	US-10-078-531-2	Sequence 2, Appli
25	88.5	8.1	1215	9	US-09-775-181-2	Sequence 2, Appli
26	88.5	8.1	1215	14	US-10-232-539-2	Sequence 2, Appli
27	88	8.0	438	14	US-10-176-584A-2	Sequence 218036,
28	88	8.0	607	12	US-10-424-599-218036	Sequence 43814, A
29	88	8.0	612	12	US-10-425-114-43814	Sequence 76473, A
30	88	8.0	900	12	US-10-282-122A-76473	Sequence 4064, Ap
31	88	8.0	1170	15	US-10-369-493-4064	Sequence 369, App
32	87.5	8.0	441	14	US-10-043-487-369	Sequence 3799, Ap
33	87.5	8.0	481	15	US-10-104-047-3799	Sequence 4603, Ap
34	87.5	8.0	491	15	US-10-108-260A-4603	Sequence 46, Appl
35	87.5	8.0	515	10	US-09-315-355-46	Sequence 25, Appl
36	87.5	8.0	545	10	US-09-849-602-25	Sequence 105, App
37	87.5	8.0	572	10	US-09-738-630-105	Sequence 2460, Ap
38	87.5	8.0	1047	15	US-10-369-493-2460	Sequence 3, Appli
39	87	7.9	1781	9	US-09-738-877-3	Sequence 13, Appl
40	87	7.9	1781	10	US-09-961-403-13	Sequence 44, Appl
41	87	7.9	1781	12	US-10-211-482-44	Sequence 16, Appl
42	87	7.9	1781	15	US-10-428-487-16	Sequence 3133, Ap
43	86.5	7.9	754	15	US-10-094-749-3133	Sequence 262640,
44	86.5	7.9	768	12	US-10-424-599-262640	Sequence 78, Appl
45	86.5	7.9	1417	9	US-09-753-143-78	

#### ALIGNMENTS

#### RESULT 1

US-10-057-510-4  
; Sequence 4, Application US/10057510  
; Publication No. US20020098580A1  
; GENERAL INFORMATION:  
; APPLICANT: Nandabalan, Krishnan  
; APPLICANT: Yang, Meijia  
; APPLICANT: Schulz, Vincent  
; APPLICANT: Curagen Corporation  
; TITLE OF INVENTION: MDM INTERACTING PROTEIN AND METHODS OF USE THEREOF  
; FILE REFERENCE: 15966-524 MDM US  
; CURRENT APPLICATION NUMBER: US/10/057,510  
; CURRENT FILING DATE: 2002-01-25  
; PRIOR APPLICATION NUMBER: USSN 09/510,252  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: USSN 60/121,192  
; PRIOR FILING DATE: 1999-02-23  
; PRIOR APPLICATION NUMBER: USSN 60/122,643  
; PRIOR FILING DATE: 1999-03-03  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 216  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-057-510-4

Query Match 100.0%; Score 1095; DB 13; Length 216;  
Best Local Similarity 100.0%; Pred. No. 2.7e-98;  
Matches 216; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MCNTNMSVPTDCAVTTSQIPASEQETLVRPKLLKLLKLSVGAKDQTYTWMKEVFLQYI	60
Db	1	MCNTNMSVPTDCAVTTSQIPASEQETLVRPKLLKLLKLSVGAKDQTYTWMKEVFLQYI	60
QY	61	MTKRLYDEKQHQHIVYCSNDLLGLDGLFGVPSPFSVKRHKIYTMIRYRNVVNVQSSDSGTS	120
Db	61	MTKRLYDEKQHQHIVYCSNDLLGLDGLFGVPSPFSVKRHKIYTMIRYRNVVNVQSSDSGTS	120

Qy 121 VSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELSCGRQ 180  
Db 121 VSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELSCGRQ 180  
Qy 181 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 216  
Db 181 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 216

## RESULT 2

US-09-888-077-1  
; Sequence 1, Application US/09888077  
; Patent No. US20020031818A1  
; GENERAL INFORMATION:  
; APPLICANT: Ronai, Ze'ev  
; APPLICANT: Fuchs, Serge  
; TITLE OF INVENTION: Modification of Mdm2 Activity  
; FILE REFERENCE: 2420/1H195-US1  
; CURRENT APPLICATION NUMBER: US/09/888,077  
; CURRENT FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,343  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 491  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-888-077-1

Query Match 99.0%; Score 1084.5; DB 9; Length 491;  
Best Local Similarity 99.5%; Pred. No. 9e-97; Mismatches 0; Indels 1; Gaps 1;  
Matches 216; Conservative 0;  
Qy 1 MCNTNMSVPTDGAVTTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59  
Db 1 MCNTNMSVPTDGAVTTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 60  
Qy 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVKHHRKIYTMIRNLVVNNQESSDSGT 119  
Db 61 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVKHHRKIYTMIRNLVVNNQESSDSGT 120  
Qy 120 SVSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELSCGRQ 179  
Db 121 SVSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELSCGRQ 180  
Qy 180 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 216  
Db 181 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 217

## RESULT 3

US-09-956-425-8  
; Sequence 8, Application US/09956425  
; Patent No. US20020045192A1  
; GENERAL INFORMATION:  
; APPLICANT: Kriwacki, Richard  
; APPLICANT: Bothner, Brian  
; APPLICANT: Lewis, William  
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof  
; FILE REFERENCE: 1340/1/035  
; CURRENT APPLICATION NUMBER: US/09/956,425  
; CURRENT FILING DATE: 2001-09-19  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 8  
; LENGTH: 491  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-956-425-8

Query Match 99.0%; Score 1084.5; DB 9; Length 491;

Best Local Similarity 99.5%; Pred. No. 9e-97; Mismatches 0; Indels 1; Gaps 1;  
Matches 216; Conservative 0;  
Qy 1 MCNTNMSVPTDGAVTTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59  
Db 1 MCNTNMSVPTDGAVTTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 60  
Qy 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVKHHRKIYTMIRNLVVNNQESSDSGT 119  
Db 61 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVKHHRKIYTMIRNLVVNNQESSDSGT 120  
Qy 120 SVSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELSCGRQ 179  
Db 121 SVSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELSCGRQ 180  
Qy 180 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 216  
Db 181 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 217

## RESULT 4

US-09-029-327-2  
; Sequence 2, Application US/09029327  
; Publication No. US20030060432A1  
; GENERAL INFORMATION:  
; APPLICANT: TOCQUE, Bruno  
; APPLICANT: WASLYK, Bohdan  
; APPLICANT: DUBS-POTERSZMAN,  
; APPLICANT: Marie-Christine  
; TITLE OF INVENTION: ANTAGONISTS OF THE ONCOGENIC ACTIVITY OF  
; TITLE OF INVENTION: THE PROTEIN MDM2, AND USE THEREOF IN THE TREATMENT OF  
; TITLE OF INVENTION: CANCERS  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Rhone-Poulenc Rorer Inc.  
; STREET: 500 Arcola Road, Mailstop 3C43  
; CITY: Collegeville  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19426  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/029,327  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: FR 96/01340  
; FILING DATE: 02-SEP-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO FR95/10331  
; FILING DATE: 04-SEP-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fehlnert Esq., Paul F.  
; REGISTRATION NUMBER: 35,135  
; REFERENCE/DOCKET NUMBER: ST95050-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (610) 454-3839  
; TELEFAX: (610) 454-3808  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 491 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-029-327-2

Query Match 99.0%; Score 1084.5; DB 10; Length 491;  
Best Local Similarity 99.5%; Pred. No. 9e-97; Mismatches 0; Indels 1; Gaps 1;  
Matches 216; Conservative 0;

QY 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59  
 DB 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYLQY 60  
 QY 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 119  
 DB 61 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 120  
 QY 120 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 179  
 DB 121 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 180  
 QY 180 RKHKSDSISLSPDESIALCVIREICCRSSSSESTG 216  
 DB 181 RKHKSDSISLSPDESIALCVIREICCRSSSSESTG 217

## RESULT 5

US-10-232-951-35  
 ; Sequence 35, Application US/10232951  
 ; Publication No. US20040043386A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pray, Todd  
 ; APPLICANT: Wong, Brian  
 ; APPLICANT: Bennett, Mark  
 ; APPLICANT: Farlati, Francesco  
 ; APPLICANT: Rigel Pharmaceuticals, Incorporated  
 ; TITLE OF INVENTION: Methods and Compositions for Functional Ubiquitin  
 ; FILE REFERENCE: 021044-006800US  
 ; CURRENT APPLICATION NUMBER: US/10/232,951  
 ; CURRENT FILING DATE: 2002-08-30  
 ; NUMBER OF SEQ ID NOS: 35  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 35  
 ; LENGTH: 491  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; OTHER INFORMATION: E3 ubiquitin ligating agent mouse double minute 2  
 ; OTHER INFORMATION: (mdm2) homolog full length protein isoform, mouse  
 ; OTHER INFORMATION: p53-binding protein (MDM2) homolog, transcript  
 ; OTHER INFORMATION: variant MDM2, transformed 3T3 cell double minute 2,  
 ; OTHER INFORMATION: Mdm2 cDNA  
 US-10-232-951-35

Query Match 99.0%; Score 1084.5; DB 12; Length 491;  
 Best Local Similarity 99.5%; Pred. No. 9e-97;  
 Matches 216; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
 QY 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59  
 DB 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYLQY 60  
 QY 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 119  
 DB 61 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 120  
 QY 120 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 179  
 DB 121 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 180  
 QY 180 RKHKSDSISLSPDESIALCVIREICCRSSSSESTG 216  
 DB 181 RKHKSDSISLSPDESIALCVIREICCRSSSSESTG 217

## RESULT 6

US-10-422-536-137  
 ; Sequence 137, Application US/10422536  
 ; Publication No. US20040014100A1  
 ; GENERAL INFORMATION:

; APPLICANT: Kinsella, Todd  
 ; APPLICANT: Lorens, James  
 ; APPLICANT: Pray, Todd  
 ; APPLICANT: Bennett, Mark  
 ; TITLE OF INVENTION: IN VIVO PRODUCTION OF CYCLIC PEPTIDES FOR INHIBITING  
 ; TITLE OF INVENTION: PROTEIN-PROTEIN INTERACTION  
 ; FILE REFERENCE: A-71433-1/AMP/CYO  
 ; CURRENT APPLICATION NUMBER: US/10/422,536  
 ; CURRENT FILING DATE: 2003-04-23  
 ; PRIOR APPLICATION NUMBER: US 60/187,130  
 ; PRIOR FILING DATE: 2000-03-06  
 ; PRIOR APPLICATION NUMBER: US 09/800,770  
 ; PRIOR FILING DATE: 2001-03-06  
 ; PRIOR APPLICATION NUMBER: US 10/232,758  
 ; PRIOR FILING DATE: 2002-08-30  
 ; NUMBER OF SEQ ID NOS: 168  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 137  
 ; LENGTH: 491  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-422-536-137

Query Match 99.0%; Score 1084.5; DB 15; Length 491;  
 Best Local Similarity 99.5%; Pred. No. 9e-97;  
 Matches 216; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
 QY 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59  
 DB 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYLQY 60  
 QY 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 119  
 DB 61 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 120  
 QY 120 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 179  
 DB 121 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 180  
 QY 180 RKHKSDSISLSPDESIALCVIREICCRSSSSESTG 216  
 DB 181 RKHKSDSISLSPDESIALCVIREICCRSSSSESTG 217

## RESULT 7

US-09-956-425-6  
 ; Sequence 6, Application US/09956425  
 ; Patent No. US20020045192A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kriwacki, Richard  
 ; APPLICANT: Botner, Brian  
 ; APPLICANT: Lewis, William  
 ; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof  
 ; FILE REFERENCE: 1340/1/035  
 ; CURRENT APPLICATION NUMBER: US/09/956,425  
 ; CURRENT FILING DATE: 2001-09-19  
 ; NUMBER OF SEQ ID NOS: 25  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 6  
 ; LENGTH: 489  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 US-09-956-425-6

Query Match 73.5%; Score 804.5; DB 9; Length 489;  
 Best Local Similarity 76.0%; Pred. No. 1.6e-69;  
 Matches 168; Conservative 16; Mismatches 24; Indels 13; Gaps 4;  
 QY 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59  
 DB 1 MCNTNMSVTEGASTSQIPASEQETLVPRPKPLLLKLLKSVGAQNDNTYTMKEIIFYLQY 60  
 QY 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 119

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Db 61 IMTKRLYDEKQKHIVYCSNDLLGDFGVPSVKEHKIYAMIRNULVAVSQO---DSGT 117
Qy 120 SVSENRCHELGGSDQDLVQLQBEKPSHSLVSRPSTSSRRRAISSEENDELGERQ 179
Db 118 SLSESRQPEGGDLKDLQAPPEKPSDDLISRLSTSSRRRSISSEENTDELGERH 177
Qy 180 RKXKHSISLSFDESALCVIRIC-----CERSSSSEST 215
Db 178 RKRRR----SLSFPSLGLCELREMCSGGTSSSSSSSEST 214

RESULT 8
US-10-211-088-143
; Sequence 143, Application US/10211088
; Publication No. US20030104479A1
; GENERAL INFORMATION:
; APPLICANT: Bright, Gary R. David
; APPLICANT: Premkumar, D. David
; APPLICANT: Chen, Yih-Tai
; TITLE OF INVENTION: No. US20030104479A1el Fusion Proteins And Assays For Molecular Bi
; FILE REFERENCE: 01-1022-US
; CURRENT APPLICATION NUMBER: US/10/211,088
; CURRENT FILING DATE: 2002-10-15
; PRIOR FILING DATE: 2001-08-01
; PRIOR FILING DATE: 2001-12-13
; NUMBER OF SEQ ID NOS: 365
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Binding domain
US-10-211-088-143

Query Match 27.2%; Score 297.5; DB 14; Length 59;
Best Local Similarity 98.3%; Pred. No. 1.8e-21;
Matches 58; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 42 GAQKDTYTMKEVLVYL-QYINTKRLYDEKQKHIVYCSNDLLGDLFGVPSVKEHKIY 99
Db 1 GAQKDTYTMKEVLVGLQYINTKRLYDEKQKHIVYCSNDLLGDLFGVPSVKEHKIY 59

RESULT 9
US-10-424-599-269551
; Sequence 269551, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 269551
; LENGTH: 251
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(251)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_85424C.1.pcp
US-10-424-599-269551
```

```
Query Match 11.6%; Score 127; DB 12; Length 251;
Best Local Similarity 59.6%; Pred. No. 0.00051;
Matches 28; Conservative 5; Mismatches 10; Indels 4; Gaps 1;

Qy 169 ENSDELSEGRORRKHKSDSISLSFDESALCVIREICCRSSSSEST 215
Db 1 ENTDELPGRRHKRR---SLSFPSLGLCELREMCSGGSSSSSSS 43

RESULT 10
US-10-304-095-6
; Sequence 6, Application US/10304095
; Publication No. US20030134275A1
; GENERAL INFORMATION:
; APPLICANT: Long, David M.
; APPLICANT: Metz, Anneke M.
; APPLICANT: Love, Ruschelle A.
; TITLE OF INVENTION: Telomerase Reverse Transcriptase (TERT) Genes
; FILE REFERENCE: 47714-5009-US
; CURRENT APPLICATION NUMBER: US/10/304,095
; CURRENT FILING DATE: 2002-11-26
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 2184
; TYPE: PRT
; ORGANISM: Plasmodium falciparum
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (330)..(335)
; OTHER INFORMATION: Xaa at position 330 = Leu or Ile;
; OTHER INFORMATION: Xaa at position 335 = Asp or Gly.
US-10-304-095-6

Query Match 9.1%; Score 100; DB 14; Length 2184;
Best Local Similarity 23.7%; Pred. No. 4.3;
Matches 50; Conservative 33; Mismatches 82; Indels 46; Gaps 11;

Qy 1 MCNTNMSVPTDG---AVTTSQIPASEQETLVKPKLLKLLKLSVGAQKDTYTMKEVLFY 56
Db 139 VCTTKNINSDNISDKCITTKNP-----LKYHINKYKYLKK-KYH 180
Qy 57 LQYIMTKRLYDEKQKHIVYCSNDLLGDLFGVPSVKEHKIY-----MYRNLVVVN 110
Db 181 TMYTNDHSYG-KYLYLVQCSGRILKNDFFKMDKQIQEERKKTYSNIKINSEYTNIIIN 239
Qy 111 QOESSDSGTSVSENRCHELGGSDQDLVQLQBEKPS--SHLVSRPSTSSRRRAISET 168
Db 240 NNNNNNNNNNNNNVH--GFGHINNLF--SNEFPSSNISCTNTYTERKDKLTHIRETS 295
Qy 169 ---ENS---DELSE---RQRKHKSDSI 188
Db 296 LLITENSSKKDLPLPEIDFSEDRKEKSSSV 326

RESULT 11
US-10-424-599-262637
; Sequence 262637, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
```

```

; SEQ ID NO 262637
; LENGTH: 695
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_79183C.1.pep
US-10-424-599-262637

Query Match      8.7%; Score 95; DB 12; Length 685;
Best Local Similarity 23.2%; Pred. No. 2.6;
Matches 51; Conservative 44; Mismatches 87; Indels 38; Gaps 11;

QY 8 VPTDGAVTTSQIPASQETLVKPL-----LLKLLKSVGAQKQDTYTMKEVLFYLYQYIM 61
DB 87 VKKGSVST-----DKSAMLRTATCENQAIQKLLTIEGLQEESSGAET-----M 134
QY 62 TKRLYDEKQOHIVYCNSDNLGDLFGVPFSVK---EHRKIYTMIRNLVNVNQESSD 116
DB 135 SQKDDDDQLEDAVYVESKSGNVFKRKASKKLKSPQKKIKLSTAENLSVTPKVHEKE 194
QY 117 SGTSVSENCHLEGGSDQKDLVOEL---QEEKPSSSHLVSRPSTSS---RRRAISETEENS 171
DB 195 NGSSEGHEE---ENGSPFDGYIHHQLSLVKDKKKSSNLSSQPNKSSNLNKQKNDKSDPTS 251
QY 172 DELSGERQR---KHKSDSISLSPDESIALC---VIREICC 206
DB 252 DETSARRKKAKRWLRBELKLEKEKVKIGGATVL---LCC 289

RESULT 12
US-10-425-114-38125
; Sequence 38125, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingsong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 38125
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB22-063-A3_FL1.pep
US-10-425-114-38125

Query Match      8.5%; Score 93.5; DB 12; Length 257;
Best Local Similarity 23.5%; Pred. No. 0.95;
Matches 51; Conservative 41; Mismatches 86; Indels 39; Gaps 10;

QY 30 PKPLLLKLLKSVGAQK-----DVTYMKVELFYLYQYIMTKR---LYDEKQOHIVYCSNDL 80
DB 7 PRPLRVLFVFWAREKIQIRKINDATARQVTP-----SKRRGLFKKAEELSVLCDAV 60
QY 81 -----LGLDFGVPSFVSKEHRKIYTMIRNLVNVNQ-----ESSDSGTSVSE--- 123
DB 61 ALIIPSTGKLPFCSSMKVELERHNLQSKNLEKLDQPSLEQLQVENS DHARMSKEAD 120
QY 124 ---NRCHLEGGSDQKDLVOELQ---EKPSSSHLVSRPSTSSRR---RAISETEENSDELSE 177
DB 121 KSHRLQMRGEELQGLDIEELQLEKALETGLTRVETKSDKIMSISIELQKGMQLMDE 180
QY 178 ROKRHKSDSISLSPDESIALCVIREICCRSSSES 214
DB 181 NKLRLQGGTQLT--EENRGLQWQICNNVHAHGAESN 216
```

```

RESULT 13
US-09-833-245-1730
; Sequence 1730, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1730
; LENGTH: 485
; TYPE: PRT
; ORGANISM: Homo sapiens
; OTHER INFORMATION:
US-09-833-245-1730

Query Match      8.5%; Score 93; DB 11; Length 485;
Best Local Similarity 21.9%; Pred. No. 2.6;
Matches 51; Conservative 39; Mismatches 77; Indels 66; Gaps 12;

QY 22 SEQETLVKPKP---LLLKLLKSVGAQKQDTYTMKEVLFYLYQYIMTKRLYDEKQOHIVYCSN 78
DB 259 SDFELGVSEEPHTIMKQLLSYITKDKQTESLVEKL---CQRFRTGRT--EQQRDLAYCVS 315
QY 79 -----DLGLDFGVPS-FSVKHEHRKIYTMIRNLVNVNQESSDSGTSV 121
DB 316 QLPLTERGLRKLMDNFDGDKLSDESIFSA-----FLSVVGKLRRAKPEGKAI 365
QY 122 SE-----NRCHLEG--GSDQKDLVOELQEEKPSSSHLVSRPSTSSRRRAISETEENSDE 173
DB 366 IDEFEQKLKACHTRGLDGIKELEIGQAGSQRAPSA---KKPSTGSRVQPLASTASDNDP 421
QY 174 LSGERQR---KRH-----KSDSISLSPDESIALCVIREICCRSSSESST 215
DB 422 VTPEPRRTTRRHPTQORASKKPKPVFSSDES-----SEEDLSAEMT 464
```

```

RESULT 14
US-09-833-245-1731
; Sequence 1731, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1731
; LENGTH: 485
; TYPE: PRT
; ORGANISM: Homo sapiens
; OTHER INFORMATION:
US-09-833-245-1731

Query Match      8.5%; Score 93; DB 11; Length 485;
Best Local Similarity 21.9%; Pred. No. 2.6;
```

